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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/812,400	03/19/2001	Lester F. Ludwig	LUDW-001/02-03US	7356	
75	590 03/12/2003				
EASTMAN & ASSOCIATES			EXAMINER		
707 BROADWAY STREET SUITE 1800		FLETCHER,	FLETCHER, MARLON T		
SAN DIEGO, O	CA 92101		ART UNIT	PAPER NUMBER	
			2837		
			DATE MAIL ED: 02/12/2002	DATE MAIL ED. 02/12/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

87

	Application No.	Applicant(s)	
			1
Office Action Summary	09/812,400	LUDWIG, LESTER F.	
Onice Action Summary	Examiner	Art Unit	
The MAN INO DATE of this communication on	Marlon T Fletcher	2837	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	nui the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statufing the period for reply will be set or extended period for reply will, by statufing the period for reply will be set or extended period for reply will be set or ext	136(a). In no event, however, may a oly within the statutory minimum of thi will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	1.
1) Responsive to communication(s) filed on 10	December 2002 .		
	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			is
Disposition of Claims			
4) Claim(s) <u>1-4,7-15 and 18-20</u> is/are pending in			
4a) Of the above claim(s) is/are withdra	awn from consideration.	•	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-4,7-15 and 18-20</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/oApplication Papers	or election requirement.		
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acce		the Examiner.	
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·		
11)☐ The proposed drawing correction filed on	_ is: a)☐ approved b)☐	disapproved by the Examiner.	
If approved, corrected drawings are required in re	eply to this Office action.	•	
12)☐ The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen	ts have been received in	Application No	
 3. Copies of the certified copies of the price application from the International Both See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	-	
14) ☐ Acknowledgment is made of a claim for domest	•		on).
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	- · · · · · · · · · · · · · · · · · · ·		
Attachment(s)	, , ,		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 7-15, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Sgroi (5,357,048).

As recited in claims 1 and 2, Sgroi discloses a system for the generation of at least one outgoing realtime digital control signal based on at least one incoming control signal, the system comprising: an incoming control signal interface (54) adapted to receive the at least one incoming control signal; at least one control signal generator (62) adapted to generate the at least one outgoing real-time digital control signal based on the at least one incoming control signal, wherein said at least one control signal generator is selected from the group consisting of a low frequency oscillator, and a transient generator; an outgoing control signal interface (66) adapted to communicate the generated at least one outgoing real-time digital control signal; and wherein the at least one incoming control signal is used to control events (58) and parameters associated with the at least one control signal generator as seen in figure 3.

As recited in claims 3 and 13, Sgroi discloses the system, wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message (figure 4).

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As recited in claims 4 and 14, Sgroi discloses the method, wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message (figure 4).

As recited in claims 7-12, Sgroi discloses the system, wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal; wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal; wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal as can be seen in figures 1 and 3, wherein as discussed in relation to figures 1 and 3, variations are applied to the incoming signals.

As recited in claim 15, Sgroi discloses the method for generating at least one outgoing digital control signal utilizing at least one control signal processor (62), the method comprising: processing a first incoming real-time control signal (figures 1, 3, and 4); processing a second incoming control signal (figures 1, 3, and 4); generating the at least one outgoing digital control signal based upon a nonmerging combination of the first incoming real-time control signal and the second incoming control signal as seen in figures 1, 3, and 4; and wherein the first incoming real-time control signal, the second incoming control signal, and the at least one outgoing digital control signal comprise MIDI messages as seen in figure 3.

As recited in claim 18, Sgroi discloses the method, wherein both the first incoming real-time control signal and the second incoming control signal comprise

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values, and wherein the control signal processor performs one operation selected from the group consisting of: multiplication of the values of the first and second incoming control signals; addition of the values of the first and second incoming control signals as seen in figures 1 and 3.

As recited in claim 19, Sgroi discloses method, wherein a temporal sequence of the first and second incoming control signals is used to generate the at least one outgoing digital control signal as seen in figure 3.

As recited in claim 20, Sgroi discloses the method for processing an incoming real-time MIDI control signal, the method comprising: receiving the incoming real-time MIDI control signal; generating an outgoing real-time MIDI control signal, wherein said generating is performed by one or more message conversion methods selected from the group consisting of: changing an incoming MIDI note number value to an outgoing MIDI continuous controller value; changing an incoming MIDI note velocity value to an outgoing MIDI continuous controller value; changing an incoming MIDI continuous controller value to an outgoing MIDI note value; changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with scaling; changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with offset; changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with complementary magnitude; changing an incoming MIDI note number value to an outgoing MIDI note number value according to variably transposed intelligent harmony that is controlled by the incoming real-time MIDI control signal; and communicating the generated outgoing real-time MIDI control signal to an

external system via an outgoing control signal interface wherein the above is discussed in column 4, lines 19-23; column 6, lines 9-36; and as seen in figures 3, 4, and 10.

Response to Arguments

- 3. Applicant's arguments with respect to claims 1-4, 7-15, and 18-20 have been considered but are most in view of the new ground(s) of rejection.
- 4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T Fletcher whose telephone number is 703-308-0848. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on 703-308-3370. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Mation / Fletcher Primary Examiner Art Unit 2837

MTF March 10, 2003